

GenCore version 5.1.4-p5-4578
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OM protein - protein search, using sw model

Run on: April 16, 2003, 12:13:01 ; Search time 32 seconds

(without alignments)
766.238 Million cell updates/sec

Title: US-10-015-967-2

Perfect score: 644
Sequence: 1 MKVLISLLPLPLMLSMV.....SRACQFLKQCQLRSFALPL 119

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 671580 seqs, 206047115 residues

Total number of hits satisfying chosen parameters: 671580

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database: SPTREMBL_21.*

1: sp-archaea:*
2: sp-bacteria:*
3: sp-fungi:*
4: sp-human:*
5: sp-invertebrate:*
6: sp-mammal:*
7: sp-mhc:*
8: sp-organelle:*
9: sp-phage:*
10: sp-plant:*
11: sp-rodent:*
12: sp-virus:*
13: sp-vertebrate:*
14: sp-unclassified:*
15: sp-virus:*
16: sp-bacteriap:*
17: sp-archaeap:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	322	50.0	128	11	Q8R3U6	Q8R3U6 mus musculu
2	77.5	12.0	477	5	O62022	O62022 caenorhabd
3	76.5	11.3	411	13	Q9W745	Q9W745 xenopus lae
4	72.5	11.3	3313	11	O88278	O88278 rattus norv
5	71.5	11.1	108	10	O82328	O82328 arabidopsis
6	71.5	11.0	188	4	O8TEV2	O8TEV2 homo sapien
7	71.5	11.0	3190	5	O01368	O01368 drosophila
8	71.5	11.0	3275	5	Q9W321	Q9W321 drosophila
9	70.5	10.9	160	10	Q9SQH1	Q9SQH1 atachis hyp
10	70.5	10.9	1290	3	Q96U43	Q96U43 neospota
11	70.5	10.9	117	4	Q9BRN8	Q9BRN8 homo sapien
12	70.5	10.9	743	5	O97120	O97120 schistosoma
13	70.5	10.9	1095	5	O21852	O21852 caenorhabd
14	70.5	10.9	1664	5	O9TV02	O9TV02 caenorhabd
15	69.5	10.8	221	12	O85299	O85299 orf virus
16	69.5	10.8	468	4	Q9UC32	Q9UC32 homo sapien

17	69	10.7	111	10	Q9FWV9	Q9FWV9 oryza sativ
18	69	10.7	200	16	Q9HV08	Q9HV08 pseudomonas
19	69	10.7	271	4	Q9HBS0	Q9HBS0 homo sapien
20	69	10.7	378	3	074213	074213 aspergillus
21	69	10.7	413	10	Q9C8W2	Q9C8W2 arabidopsis
22	69	10.7	454	13	Q90ZEB	Q90ZEB oncorhynch
23	69	10.7	527	10	Q9SKW4	Q9SKW4 arabidopsis
24	69	10.7	1081	6	Q9BE73	Q9BE73 macaca fasc
25	68.5	10.6	381	5	Q26641	Q26641 strongyloce
26	68.5	10.6	405	13	Q9PS79	Q9PS79 xenopus. xc
27	68.5	10.6	422	11	Q922X0	Q922X0 mus musculu
28	68.5	10.6	427	6	Q95MH5	Q95MH5 sagittus oe
29	68.5	10.6	1006	16	P73012	P73012 synecocyst
30	68	10.6	189	14	Q991U7	Q991U7 uncultured
31	68	10.6	283	10	Q43508	Q43508 lycopersico
32	68	10.6	291	13	Q91AK3	Q91AK3 xenopus lae
33	68	10.6	539	10	Q9XHV3	Q9XHV3 oryza sativ
34	67.5	10.5	453	13	Q9FTN2	Q9FTN2 brachydantio
35	67.5	10.5	1069	5	Q9BPS2	Q9BPS2 bombyx mori
36	67	10.4	376	10	Q9LXW3	Q9LXW3 salmo salar
37	67	10.4	454	13	O8GGE2	O8GGE2 salmo salar
38	67	10.4	743	12	O83111	O83111 mouse adeno
39	67	10.4	1062	11	O88845	O88845 mus musculu
40	67	10.4	1062	11	O89019	O89019 mus musculu
41	66.5	10.3	103	17	Q9YCZ2	Q9YCZ2 aeropyrum p
42	66.5	10.3	419	11	O62681	O62681 rattus norv
43	66.5	10.3	422	13	Q91430	Q91430 brachydantio
44	66.5	10.3	2571	11	O8R4Y4	O8R4Y4 mus musculu
45	66.5	10.3	3301	11	Q91Z10	Q91Z10 mus musculu

ALIGNMENTS

RESULT 1
Q8R3U6 PRELIMINARY; PRT; 128 AA.
AC Q8R3U6; 01-JUN-2002 (TREMBLrel. 21, Created)
DT 01-JUN-2002 (TREMBLrel. 21, Last sequence update)
DT 01-JUN-2002 (TREMBLrel. 21, Last annotation update)
DE Similar to hypothetical gene LOC125944.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RA Strausberg R.;
RL Submitted (MAR-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC024561; AAH24561.1; -
SQ SEQUENCE 128 AA; 14043 MW; CCE67DA04D23D7DF CRC64;

Query Match 50.0%; Score 322; DB 11; Length 128;
Best Local Similarity 70.9%; Pred. No. 2.1e-29;
Matches 61; Conservative 6; Mismatches 19; Indels 0; Gaps 0;

QY 1 MKVLISLLPLPLMLSMVSSSLNPGVARGHNRGASRRRLQEGQEECKDMFLRAP 60
DB 1 MKVLASFLLLPLVLMMSVSSPNPGVARSHPDHLAPRRWLLEGGQEECKDMFLQAP 60
QY 61 RRFMTVSGLPKCKPCDHFKNYK 86
DB 61 KKKATAVLGPFRKCCPDHYKREKK 86
RESULT 2
ID 062022 PRELIMINARY; PRT; 477 AA.
AC 062022; 018293;
DT 01-ANG-1998 (TREMBLrel. 07, Created)
DT 01-MAY-1999 (TREMBLrel. 10, Last sequence update)
DT 01-JUN-2000 (TREMBLrel. 14, Last annotation update)

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DE ZK131.11 protein.
GN ZK131.11.
OS Caenorhabditis elegans.
OC Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Rhabditidae;
OC Rhabditidae; Peloderinae; Caenorhabditis.
OX NCBI_TaxID=6239;
RN [1]
RP SEQUENCE FROM N.A.
RA Percy C.;
RL Submitted (OCT-1997) to the EMBL/GenBank/DBJ databases.
DR EMBL; Z93373; CAB07552.1; -.
DR EMBL; Z83245; CAB07552.1; JOINED.
DR EMBL; Z83245; CAB05840.1; -.
DR EMBL; Z93373; CAB05840.1; JOINED.
SO SEQUENCE 477 AA; 53385 MW; 86F5257F9EB6DD90 CRC64;

Query Match 12.0%; Score 77.5; DB 5; Length 477;
Best Local Similarity 34.7%; Pred. No. 1.2;
Matches 25; Conservative 6; Mismatches 32; Indels 9; Gaps 3;

OY 46 GGOECCKDWFLRAPP--KFWTVSGLPKKO--CPCDHFKNVKKTRHQRHRRKPKHS 100
DB 290 GGPNAESNTTFIRATKRFKKITTSATLPKKNSTSMDFQKSVFFEDTAHHHNMDS 349
OY 101 RACQOFLKQCOL 112
DB 350 R----ILKKAPL 357

RESULT 3
OY 09W745 PRELIMINARY; PRT; 411 AA.
AC 09W745;
DT 01-NOV-1999 (TREMBLrel. 12, last sequence update)
DT 01-NOV-1999 (TREMBLrel. 21, last annotation update)
DE COUP transcription factor 1.
OS Xenopus laevis (African clawed frog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Mesobatrachia; Pipiloidea; Pipidae;
OC Xenopodinae; Xenopus.
OX NCBI_TaxID=8355;
RN [1]
RP SEQUENCE FROM N.A.
RA Langlois M.C., Vanacker J.M., Holland N.D., Escriva H., Queva C.,
RT "Amphicoupe-TP, a nuclear orphan receptor of the lancelet Branchiostoma
RT floricidae, is implicated in retinoic acid signaling pathways."
RL Submitted (JUN-1999) to the EMBL/GenBank/DBJ databases.
CC -1- SUBCELLULAR LOCATION: NUCLEAR (BY SIMILARITY).
CC -1- SIMILARITY: BELONGS TO THE NUCLEAR HORMONE RECEPTORS FAMILY.
DR EMBL; AF157558; AAD4224.1; -.
DR HSSP; P19793; 2NLL.
DR InterPro; IPR000536; Hormone_rec_1lg.
DR InterPro; IPR001628; Znf_C4steroid.
DR Pfam; PF00104; hormone_rec_1.
DR Pfam; PF00105; zf-C4_1.
DR PRINTS; PR00047; STEROIDFINGER.
DR PRODOM; PD000035; Znf_C4steroid_1.
DR SMART; SM00430; HOLY.1.
DR SMART; SM00399; ZNF_C4_1.
DR PROSITE; PS00031; NUCLEAR_RECEPTOR_1.
DR DNA-binding; Nuclear protein; Receptor; Transcription regulation;
KW Zinc-finger.
SO SEQUENCE 411 AA; 45467 MW; 950E285B7FC33FB CRC64;

Query Match 11.9%; Score 76.5; DB 13; Length 411;
Best Local Similarity 26.0%; Pred. No. 1.4;
Matches 26; Conservative 16; Mismatches 25; Indels 33; Gaps 6;

OY 26 PGVA--RGRHDSGASRRRLQ-----EGGQECF-CQDWFLRARRKFTMYSG 70
DB 53 PGAADGKGQGGGSOQHIECVVCGDKSGSKHYGQFTCEGCKSPFKRSYRN-LTYTCR 111
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OY 71 PKKCCPDHFGNVKTRHQRHRRKPKHSRACQOFLKOC 110
DB 112 ANRNCPID-----QHHRNCCQYCR-----LKRC 134

RESULT 4
OY 088278 PRELIMINARY; PRT; 3313 AA.
AC 088278;
DT 01-NOV-1998 (TREMBLrel. 08, Created)
DT 01-NOV-1998 (TREMBLrel. 08, last sequence update)
DT 01-JUN-2002 (TREMBLrel. 21, last annotation update)
DE MEGF2.
OS MEGF2.
GN MEGF2.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A.
RA STRAIN-SPRAGUE-DAWLEY; TISSUE-BRAIN;
RX MEDLINE-98360089; PubMed-9693030;
RA Nakayama M., Nakajima D., Nagase T., Nomura N., Seki N., Ohara O.;
RT "Identification of high-molecular-weight proteins with multiple EGF-
RT like motifs by motif-trap screening."
RL Genomics 51:27-34(1998).
CC -1- SIMILARITY: CONTAINS 9 CADHERIN DOMAINS.
DR EMBL; AB011528; BAA32459.1; -.
DR HSSP; P00740; 1EDM.
DR InterPro; IPR000152; Asx_hydroxyl.
DR InterPro; IPR002126; Cadherin.
DR InterPro; IPR000561; EGF-like.
DR InterPro; IPR000742; EGF_2.
DR InterPro; IPR001881; EGF_Ca.
DR InterPro; IPR000832; GPCR_secretin.
DR InterPro; IPR001879; hormu_receptor.
DR InterPro; IPR002049; laminin_EGF.
DR InterPro; IPR001791; laminin_G.
DR InterPro; IPR002033; PKD_cys_rich.
DR Pfam; PF00002; 7tm_2_1.
DR Pfam; PF00028; cadherin_9.
DR Pfam; PF00008; EGF_6.
DR Pfam; PF01825; GPS_1.
DR Pfam; PF02793; HRM_1.
DR Pfam; PF00054; laminin_G_1.
DR PRINTS; PR00205; CADHERIN.
DR SMART; SM00112; CA_8.
DR SMART; SM00180; EGF_Lam_1.
DR SMART; SM00001; EGF_Like_6.
DR SMART; SM00303; GPS_1.
DR SMART; SM00008; Hormr_1.
DR SMART; SM00282; Lamg_2.
DR PROSITE; PS00010; ASX_HYDROXYL; UNKNOWN_1.
DR PROSITE; PS00232; CADHERIN_1; 6.
DR PROSITE; PS0268; CADHERIN_2; 9.
DR PROSITE; PS00022; EGF_1; UNKNOWN_6.
DR PROSITE; PS01186; EGF_2; 4.
DR PROSITE; PS02227; G_PROTEIN_REC_P2_3; 1.
DR PROSITE; PS0261; G_PROTEIN_REC_P2_4; 1.
DR PROSITE; PS01248; LAMININ_TYPE_EGF; UNKNOWN_1.
DR Calcium-binding; Cell adhesion; EGF-like domain; Glycoprotein.
KW SEQUENCE 3313 AA; 359348 MW; B1DA09517288764 CRC64;

Query Match 11.3%; Score 72.5; DB 11; Length 3313;
Best Local Similarity 27.6%; Pred. No. 35;
Matches 35; Conservative 9; Mismatches 40; Indels 43; Gaps 7;

OY 24 LNFVGARHGDRGQASRRWLQEG--GQECCKDWFL-----RARRRFTVSGLP 71
DB 1978 LNF-----CQNGSGSRHLQSGPHGYTCDCAAGYGGQCHHRMDQCGRGWMSPTGCP 2030
OY 72 KKQCPDHFEG--NVKTRHQRH-----HRRP-----NKSRRACQOFLKOC 110
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Db 2031 ---CNCVDVHGFDPNCKTSGCHCEKHFHPRGSDSCLEPCDYPVGSTSRSCAPHSGQC 2087,
OY 111 QLRSPAL 117
Db 2088 PCRRGAL 2094

RESULT 5
082328
ID 082328 PRELIMINARY; PRT; 108 AA.
AC 082328;
DT 01-NOV-1998 (TREMBLrel. 08, Created)
DT 01-NOV-1998 (TREMBLrel. 08, last sequence update)
DT 01-DEC-2001 (TREMBLrel. 19, last annotation update)
DE GASTI/GASA-like protein.
GN AT2G14900.
OS Arabidopsis thaliana (Mouse-ear cress).
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae;
OC euroside II; Brassicales; Brassicaceae; Arabidopsis.
OX NCBI_TaxID=3702;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=CV. COLUMBIA;
RX MEDLINE=20083487; PubMed=10617197;
RA Lin X., Kaul S., Rounsley S.D., Shea T.P., Benito M.-I., Town C.D.,
RA Fujii C.Y., Mason T.M., Bowman C.L., Barnstead M.E., Feldblum T.V.,
RA Buell C.R., Ketchum K.A., Lee J.J., Renning C.M., Koo H., Moffat K.S.,
RA Cronin L.A., Shen M., VanAken S.E., Unanue L., Tallon L.J., Gill J.E.,
RA Adams M.D., Carrera A.J., Creasy T.H., Goodman H.M., Somerville C.R.,
RA Copenhaver G.P., Preuss D., Nierman W.C., White O., Eisen J.A.,
RA Salberg S.L., Fraser C.M., Venter J.C.;
RT *Sequence and analysis of chromosome 2 of the plant Arabidopsis
RT thaliana.*;
RL Nature 402:761-768(1999).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=CV. COLUMBIA;
RA Lin X.;
RL Submitted (MAR-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL; AC005396; AAC61287.1; -.
DR InterPro; IPR003854; GASA.
DR Pfam; PF02704; GASA; 1.
SQ SEQUENCE 108 AA; 11381 MW; 93206EAE3BB95DF5 CRC64;

Query Match 11.1%; Score 71.5; DB 10; Length 108;
Best Local Similarity 25.9%; Pred. No. 1.3;
Matches 29; Conservative 18; Mismatches 38; Indels 27; Gaps 7;

OY 1 MKVLSLLLL-LPLIMSKVSSSLNPGVARG-----HRDRGQASRRMLQEGGEGCE-- 51
Db 1 MKTIVSILVLAASLLISLASATISDAPSGAVAPAPSKDPALEKWC---GQKCEGR 57
OY 52 CKDMFLAPRRKFMVSGLPKQCPDHFKNVYKTRHQRHRRKPKHSHRAC 103
Db 58 CKE---AGMKDRCLKCYGCKDCQC-----VPSGTY-----GKNHECAC 94

RESULT 6
08TEV2
ID 08TEV2 PRELIMINARY; PRT; 188 AA.
AC 08TEV2;
DT 01-JUN-2002 (TREMBLrel. 21, Created)
DT 01-JUN-2002 (TREMBLrel. 21, last sequence update)
DT 01-JUN-2002 (TREMBLrel. 21, last annotation update)
DE Vascular endothelial growth factor B isoform VEGF-B167.
GN VEGFB.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
OX NCBI_TaxID=9606;
RN [1]

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RP SEQUENCE FROM N.A.
RX MEDLINE=96325041; PubMed=8702615;
RA Olofsson B., Pajusola K., von Euler G., Chliov D., Allitalo K.,
RA Eriksson U.;
RT *Genomic organization of the mouse and human genes for vascular
RT endothelial growth factor B (VEGF-B) and characterization of a second
RT splice isoform.*;
RL J. Biol. Chem. 271:19310-19317(1996).
RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=98032228; PubMed=9365524;
RA Joukov V., Kaipainen A., Jeltsch M., Pajusola K., Olofsson B.,
RA Kumar V., Eriksson U., Allitalo K.;
RT *Vascular endothelial growth factors VEGF-B and VEGF-C.*;
RL J. Cell. Physiol. 173:211-215(1997).
RN [3]
RP SEQUENCE FROM N.A.
RA Jeltsch M., Pajusola K., Chliov D., Allitalo K.;
RL Submitted (JAN-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF468110; AAL79000.1; -.
SQ SEQUENCE 188 AA; 21314 MW; F04654D5A3626095 CRC64;

Query Match 11.0%; Score 71; DB 4; Length 188;
Best Local Similarity 29.7%; Pred. No. 2.7;
Matches 22; Conservative 13; Mismatches 15; Indels 24; Gaps 6;

OY 43 LOGSGCECKDMFLAPRRKFMVSGLPKQCPDHFKNVYKTRHQRHRRKPKHSHR 101
Db 116 LEEHSQ-CECR-----PKKDSNVKPSRPLCP-----KCTQHQRPD--PR 155
OY 102 ACOQFLKQCOLRSP 115
Db 156 TCR---RRCRRSRP 166

RESULT 7
001368
ID 001368 PRELIMINARY; PRT; 3190 AA.
AC 001368;
DT 01-JUL-1997 (TREMBLrel. 04, Created)
DT 01-JUL-1997 (TREMBLrel. 04, last sequence update)
DT 01-JUN-2002 (TREMBLrel. 21, last annotation update)
DE CREB-binding protein homolog.
GN NEJ OR CG15319.
OS Drosophila melanogaster (Fruit fly).
OC Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
OC Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
OC Ephydroidea; Drosophilidae; Drosophila.
OX NCBI_TaxID=7227;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=97263578; PubMed=9109493;
RA Akimaru H., Chen Y., Dai P., Hou D.X., Nonaka M., Smolik S.M.,
RA Armstrong S., Goodman R.H., Ishii S.;
RT *Drosophila CBP is a co-activator of cubitus interruptus in hedgehog
RT signaling.*;
RL Nature 386:735-738(1997).
DR EMBL; U88570; AAB53050.1; -.
DR TRANSFAC; T03236; _nef;
DR Flybase; FBgn0015624; nef;
DR InterPro; IPR001487; Bromodomain.
DR InterPro; IPR003101; KIX.
DR InterPro; IPR000197; TAZ_finger.
DR InterPro; IPR000433; ZnF_ZZ.
DR Pfam; PF00439; bromodomain; 1.
DR Pfam; PF02172; KIX; 1.
DR Pfam; PF02135; zf-TAZ; 2.
DR Pfam; PF00569; zf; 1.
DR PRINTS; PR00503; BROMODOMAIN.
DR SMART; SM00297; BROMO; 1.
DR SMART; SM00291; ZnF_ZZ; 1.
DR PROSITE; PS00653; BROMODOMAIN_1; UNKNOWN_1.
DR PROSITE; PS50014; BROMODOMAIN_2; 1.

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DR PROSITE: PS01357; ZF_ZZ_1; UNKNOWN_1
 SQ SEQUENCE 3190 AA; 331879 MW; E53526678BC055A8 CRC64;
 Query Match 11.0%; Score 71; DB 5; Length 3190;
 Best Local Similarity 26.7%; Pred. No. 50;
 Matches 23; Conservative 11; Mismatches 30; Indels 22; Gaps 3;
 QY 25 NPGVARGHRDQASRRWLDGSGCECKDWFLLARPRKRFMTVSGLPKKQCCDFHKGNV 84
 DB 2390 NPGQA-----RKQSIQRCIOSLHAHACCCRDANCRLP-----SCQKKKLTV 2429
 QY 85 KTRHQRHRRKPNKHSRACQOFLKQC 110
 DB 2430 QHTKNC--RKPNCGCPICQKQIALC 2453
 RESULT 8
 ID Q9W321 PRELIMINARY; PRT: 3275 AA.
 AC Q9W321;
 DT 01-MAY-2000 (TRMBLrel. 13, Created)
 DT 01-MAY-2000 (TRMBLrel. 13, Last sequence update)
 DT 01-JUN-2002 (TRMBLrel. 21, Last annotation update)
 DE CG15319 protein.
 GN NEI OR CG15319.
 OS Drosophila melanogaster (fruit fly).
 OC Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
 OC Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
 OC Ephydroidea; Drosophilidae; Drosophila.
 NCBI_TaxID=7227;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=BERKELEY.
 RX MEDLINE=20196006; PubMed=10731132;
 RA Adams M.D., Celniker S.E., Holt R.A., Evans C.A., Gocayne J.D.,
 RA Amanatides P.G., Scherer S.E., Li P.W., Hoskins R.A., Galle R.F.,
 RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,
 RA Sutton G.G., Mortman J.R., Vandell M.D., Zhang Q., Chen L.X.,
 RA Brandon R.C., Rogers Y.-H.C., Blazer R.G., Champe M., Pfeiffer B.D.,
 RA Wan K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Miklos G.L.G.,
 RA Abell J.F., Agbayani A., An H.-U., Andrews-Pfannkoch C., Baldwin D.,
 RA Ballew R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasly E.M.,
 RA Beeson K.Y., Benos P.V., Berman B.P., Bhandari D., Boltsakov S.,
 RA Borkova D., Botchan M.R., Bouck J., Brokstein P., Brottier P.,
 RA Burris K.C., Busam D.A., Butler H., Cadieu E., Center A., Chandra I.,
 RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
 RA de Pablos B., Delcher A.L., Deng Z., Mays A.D., Dew I., Dietz S.M.,
 RA Dodson R., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
 RA Durbin R.J., Evangelista C.C., Ferraz C., Ferreira S., Fleischmann W.,
 RA Fostel C., Gabrielian A.E., Garg N.S., Gelbart W.M., Glasser K.,
 RA Glodek A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.,
 RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,
 RA Hostin D., Houston K.A., Howland T.J., Wei M.-H., Ibegwam C.,
 RA Jalali M., Kalish F., Kappen G.H., Ke Z., Kennison J.A., Ketchum K.A.,
 RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai X.,
 RA Lasro P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,
 RA Liu X., Mattei B., McIntosh T.C., McLeod M.P., McPherson D.,
 RA Merkulov G., Milshina N.V., Mobarry C., Morris J., Moshrefi A.,
 RA Mount S.M., Moy M., Murphy B., Murphy L., Muzny D.M., Nelson D.L.,
 RA Nelson D.R., Nelson K.A., Nixon K., Nusskern D.R., Pacle J.M.,
 RA Palazzolo M., Pittman G.S., Pan S., Pollard J., Puri V., Reese M.G.,
 RA Reibert K., Remington K., Saunders R.D.C., Scheeler F., Shen H.,
 RA Shue B.C., Siden-Kiamos I., Simpson M., Skupski M.P., Smith T.,
 RA Spier E., Spradling A.C., Stapleton M., Strong R., Sun E.,
 RA Svendsen R., Tector C., Turner R., Venter E., Wang A.H., Wang X.,
 RA Wang Z.-Y., Wasserman D.A., Weinstock G.M., Weissbach J.,
 RA Williams S.M., Woodage T., Worley K.C., Wu D., Yang S., Yao Q.A.,
 RA Ye J., Yeh R.-F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,
 RA Zheng X.-H., Zhong F.N., Zhong W., Zhou X., Zhu S., Zhu X., Smith H.O.,
 RA Gibbs R.A., Myers E.W., Rubin G.M., Venter J.C.,
 RT "The genome sequence of Drosophila melanogaster.";
 RL Science 287:2185-2195 (2000).
 DB EMBL; AE003448; AAF46516.1; -.

DR FlyBase: FBgn0015624; nej.
 DR InterPro: IPR001487; Bromodomain.
 DR InterPro: IPR003101; KIX.
 DR InterPro: IPR000197; TRAFinger.
 DR InterPro: IPR000433; Znf_ZZ.
 DR Pfam: PF00439; bromodomain; 1.
 DR Pfam: PF02172; KIX; 1.
 DR Pfam: PF02135; Zf-TAZ; 2.
 DR Pfam: PF00569; ZZ; 1.
 DR PRINTS: PR00503; BROMODOMAIN.
 DR SMART: SM00287; BROMO; 1.
 DR SMART: SM00281; Znf_ZZ; 1.
 DR PROSITE: PS00633; BROMODOMAIN_1; 1.
 DR PROSITE: PS50014; BROMODOMAIN_2; 1.
 DR PROSITE: PS01357; ZF_ZZ_1; UNKNOWN_1.
 SQ SEQUENCE 3275 AA; 340672 MW; E5944C3BECE0E7AA CRC64;
 Query Match 11.0%; Score 71; DB 5; Length 3275;
 Best Local Similarity 26.7%; Pred. No. 51;
 Matches 23; Conservative 11; Mismatches 30; Indels 22; Gaps 3;
 QY 25 NPGVARGHRDQASRRWLDGSGCECKDWFLLARPRKRFMTVSGLPKKQCCDFHKGNV 84
 DB 2390 NPGQA-----RKQSIQRCIOSLHAHACCCRDANCRLP-----SCQKKKLTV 2429
 QY 85 KTRHQRHRRKPNKHSRACQOFLKQC 110
 DB 2429 QHTKNC--RKPNCGCPICQKQIALC 2452
 RESULT 9
 ID Q9SOH1 PRELIMINARY; PRT: 160 AA.
 AC Q9SOH1;
 DT 01-MAY-2000 (TRMBLrel. 13, Created)
 DT 01-MAY-2000 (TRMBLrel. 13, Last sequence update)
 DT 01-MAR-2002 (TRMBLrel. 20, Last annotation update)
 DE Allergen.
 GN ARA H 7.
 OS Atractis hypogaea (Peanut).
 OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
 OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae;
 OC Eurosid 1; Fabales; Fabaceae; Papilionoideae; Aeschynomeneae;
 OC Atractis.
 NCBI_TaxID=3818;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=VIRGINIA.
 RX MEDLINE=99406463; PubMed=10474031;
 RA Kleber-Janke T., Cramer R., Appenzeller U., Schlaak M., Becker W.M.,
 RT "Selective cloning of peanut allergens, including profilin and 2S
 RT albumin, by phage display technology.";
 RL Int. Arch. Allergy Immunol. 119:265-274 (1999).
 DR EMBL: AF091737; AAD56719.1; -.
 DR InterPro: IPR003612; AAI.
 DR InterPro: IPR001768; TRY/amy1_inhbr.
 DR Pfam: PF00234; try_alpha_amy1; 1.
 DR SMART: SM00499; AAI; 1.
 SQ SEQUENCE 160 AA; 18417 MW; 9F9E4CEB68080DAC CRC64;
 Query Match 10.9%; Score 70.5; DB 10; Length 160;
 Best Local Similarity 22.1%; Pred. No. 2.6;
 Matches 33; Conservative 19; Mismatches 46; Indels 51; Gaps 6;
 QY 1 MKVLISLLLLPLIMSMVSSSLNPGVARGHRDQASRRWLDGSGCECKDWFLLAR 60
 DB 1 MAAKLSIVALLGALLIVASATRMP-----DRSGSGSRWDAPSRDDCCQKQRLRAN 53
 QY 61 RRRFMTVSGLPKKQCCPC-DHFGNKVKKTRHQRHRRK-----NKHSRAC 103
 DB 54 LR-----PCEHHMRARVEQEQBOEDYRSTRSGSGRGRPGESDENQEDRCC 100
 QY 104 Q-----QFLKQ-CQLRSFALP 118

Db 101 NELNRFQNNQRCMCQAQQILQNSFWVP 129

RESULT 10

096DA3 PRELIMINARY; PRT; 1290 AA.
AC 096DA3;
DT 01-DEC-2001 (TREMBLrel. 19, Created)
DT 01-DEC-2001 (TREMBLrel. 19, last sequence update)
DT 01-DEC-2001 (TREMBLrel. 19, last annotation update)
DE Hypothetical 137.8 kDa protein.
GN B1B22.060.
OS Neukarya crassa.
OC Eukaryota; Fungi; Ascomycota; Pezizomycotina; Sordariomycetes;
OC Sordariales; Sordariaceae; Neurospora.
OX NCBI_TaxID=5141;
RN [1]
RP SEQUENCE FROM N.A.
RA Schulte U., Algen V., Hohelsel J., Brandt P., Fartmann B., Holland R.,
RA Myakatura G., Neues H.W., Mannheim G.;
RL Submitted (MAY-2000) to the EMBL/GenBank/DBJ databases.
RN [2]
RP SEQUENCE FROM N.A.
RA German Neurospora genome project;
RL EMBL; AL356834; CAD11425.1; -
KW Hypothetical protein.
SQ SEQUENCE 1290 AA; 137768 MW; 1076A879259BEB70 CRC64;

Query Match 10.9%; Score 70.5; DB 3; Length 1290;
Best Local Similarity 24.5%; Pred. No. 22;
Matches 26; Conservative 18; Mismatches 31; Indels 31; Gaps 6;

QY 33 RDGQASRRMLQEGGQCECKDWFLAPRRKFTVS---GLPKKQCCDFKGNVKK--T 87
Db 454 RKKMKKKQKWKQSGSKGK-----LRAPESAMPVSVVWSPSPRNPWLPNGHIRNGDV 508
QY 88 RHQRHNR-----KPKHSRACQOF--LKOCQLRSFA 116
Db 509 GCHSHQNHMYNDGYYVRLMSEKLEPR---QQPARLRKALALYA 550

RESULT 11

09BRN8 PRELIMINARY; PRT; 117 AA.
AC 09BRN8;
DT 01-JUN-2001 (TREMBLrel. 17, Created)
DT 01-JUN-2001 (TREMBLrel. 17, last sequence update)
DT 01-DEC-2001 (TREMBLrel. 19, last annotation update)
DE Hypothetical 13.1 kDa protein.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=EYE;
RA Strausberg R.;
RL Submitted (APR-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC006151; AA06151.1; -
KW Hypothetical protein.
SQ SEQUENCE 117 AA; 13085 MW; 77A87C1DC40665DC CRC64;

Query Match 10.9%; Score 70; DB 4; Length 117;
Best Local Similarity 29.5%; Pred. No. 2.1;
Matches 26; Conservative 7; Mismatches 23; Indels 32; Gaps 5;

QY 16 LMSVSSSLNPGYAR---GHRDRGQASRRMLQEGGQCECKDWFLAPRRKFTVSGLPK 72
Db 18 LLSMV-----PGPARPPGSCWDPLOCTRTWL-----LSHTPRRRW--ISGLPR 58
QY 73 KQCP-----CDHFKGNVKKTRHQ 90

Db 59 ASCRLGEPPPLPYCDQAYGEELSRHR 86

RESULT 12

097120 PRELIMINARY; PRT; 743 AA.
AC 097120;
DT 01-MAY-1999 (TREMBLrel. 10, Created)
DT 01-MAY-1999 (TREMBLrel. 10, last sequence update)
DT 01-JUN-2002 (TREMBLrel. 21, last annotation update)
DE Retinoic acid receptor RXR.
OS Schistosoma mansoni (Blood fluke).
OC Eukaryota; Metazoa; Platyhelminthes; Trematoda; Digenea; Strigoidae;
OC Schistosomatidae; Schistosomatidae; Schistosoma.
OX NCBI_TaxID=6183;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE-99143112; PubMed-9988692;
RA Freebern W.J., Osman A., Niles E.G., Christen L., Laverde P.T.;
RT Identification of a cDNA encoding a retinoid X receptor homologue
from Schistosoma mansoni. Evidence for a role in female-specific gene
expression. *.
RL J. Biol. Chem. 274:4577-4585(1999).
CC -1- SUBCELLULAR LOCATION: NUCLEAR (BY SIMILARITY).
DR EMBL; AF094759; A016119.1; -
DR HSSP; P19793; 1RXR.
DR InterPro; IPR000536; Hormone_rec_119.
DR InterPro; IPR001723; Steroid_receptor.
DR InterPro; IPR001628; ZnF_C4steroid.
DR Pfam; PF00105; zf-C4; 1.
DR PRINTS; PR00398; STRDHOMONER.
DR PRINTS; PR00047; STROIDFINGER.
DR ProDom; PD000035; ZnF_C4steroid; 1.
DR SMART; SM00430; HOD1; 1.
DR SMART; SM00399; ZnF_C4; 1.
DR PROSITE; PS00031; NUCLEAR_RECEPTOR; 1.
KW DNA-binding; Nuclear protein; Receptor; Transcription regulation;
KW Zinc-finger.
SQ SEQUENCE 743 AA; 82558 MW; 4CA9D287270B64DA CRC64;

Query Match 10.9%; Score 70; DB 5; Length 743;
Best Local Similarity 28.4%; Pred. No. 14;
Matches 29; Conservative 15; Mismatches 28; Indels 30; Gaps 7;

QY 18 SWSVSSSLNP-GVARGHRDRGQASRRMLQEGGQCECKDWFLAPRRKFTV---SGLPK 72
Db 261 SVVTNINLPICVIGDRAKSK-----HYGVISCEGCKGFFKFTVRKOLVYVCRSG--- 311
QY 73 KQCP-----CDH-----FKGNVKKTRHQHHRKPKKH 99
Db 312 -QCPVDRKRRKRCQHCREFQCLAKGMKKEAVQERHROPSSN 352

RESULT 13

021852 PRELIMINARY; PRT; 1095 AA.
AC 021852;
DT 01-NOV-1996 (TREMBLrel. 01, Created)
DT 01-NOV-1996 (TREMBLrel. 01, last sequence update)
DT 01-DEC-2001 (TREMBLrel. 19, last annotation update)
DE R09A8.1 protein.
GN R09A8.1.
OS Caenorhabditis elegans.
OC Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Rhabditioidea;
OC Rhabditidae; Peloderinae; Caenorhabditis.
OX NCBI_TaxID=6239;
RN [1]
RP SEQUENCE FROM N.A.
RA Wilkison J.;
RL Submitted (NOV-1995) to the EMBL/GenBank/DBJ databases.

RN [2]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=99069613; PubMed=9851916;
 RA none;
 RT "Genome sequence of the nematode C.elegans: A platform for
 investigating biology."
 RL Science 282:2012-2018(1998).
 DR EMBL; Z68009; CAA92003.1;
 SQ SEQUENCE 1095 AA; 124431 MW; 33DD93B1D906752C CRC64;

Query Match 10.9%; Score 70; DB 5; Length 1095;
 Best Local Similarity 31.6%; Pred. No. 21;
 Matches 24; Conservative 10; Mismatches 32; Indels 10; Gaps 3;

OY 20 VSSSLNPGVARGHRDQASRRMLQEGQCECKDWFLLAPRRKFTVSGLPKKQCPD 79
 DB 305 VSSSLNPGVARGHRDQASRRMLQEGQCECKDWFLLAPRRKFTVSGLPKKQCPD 79
 OY 80 EFGNVKTRHQRHRRK 95
 DB 356 KKAN-RITSHLEHNSR 370

RESULT 14

O9TV02 PRELIMINARY; PRT; 1664 AA.

ID O9TV02; 61-MAY-2000 (TREMblrel. 13, Created)
 DT 01-MAY-2000 (TREMblrel. 13, Last sequence update)
 DT 01-DEC-2001 (TREMblrel. 19, Last annotation update)
 DE Y64G10A.7 protein.
 GN Y64G10A.7.
 OS Caenorhabditis elegans.
 OC Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Rhabditidae;
 OC Rhabditidae; Pelodierinae; Caenorhabditis.
 OX NCBL_TaxID=6239;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Morimoto B.J.;
 RL Submitted (APR-1999) to the EMBL/GenBank/DBJ databases.
 RN [2]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=99069613; PubMed=9851916;
 RA none;
 RT "Genome sequence of the nematode C.elegans: A platform for
 investigating biology."
 RL Science 282:2012-2018(1998).
 DR EMBL; Z68009; CAA92003.1;
 SQ SEQUENCE FROM N.A.

RA Ainscough R.;
 RL Submitted (MAY-1999) to the EMBL/GenBank/DBJ databases.
 DR EMBL; AL117206; CAB60454.1; JOINED.
 DR EMBL; AL110498; CAB57911.1; JOINED.
 DR EMBL; AL117206; CAB57911.1; JOINED.
 DR HSSP; P00736; IAPQ.
 DR InterPro; IPR000152; Asx_hydroxyl.
 DR InterPro; IPR000561; EGF-like.
 DR InterPro; IPR001881; EGF_Ca.
 DR InterPro; IPR002049; Laminin_EGF.
 DR Pfam; PF00008; EGF_25.
 DR PRINTS; PR00011; EGF_LAMININ.
 DR SMART; SM00179; EGF_CA; 4.
 DR SMART; SM00001; EGF_like; 18.
 DR PROSITE; PS00010; ASX_HYDROXYL; 4.
 DR PROSITE; PS00022; EGF_1; UNKNOWN_22.
 DR PROSITE; PS01186; EGF_2; 24.
 DR PROSITE; PS01187; EGF_CA; 3.
 DR Calcium-binding; EGF-like domain; Glycoprotein; Hydroxylation; Repeat.
 SQ SEQUENCE 1664 AA; 179279 MW; A69F093B4C705832 CRC64;

Query Match 10.9%; Score 70; DB 5; Length 1664;
 Best Local Similarity 30.0%; Pred. No. 33;

Matches 21; Conservative 10; Mismatches 35; Indels 4; Gaps 3;

OY 46 GGOBCECKDMF-LRAPRRKFTVSGLPKKQCPDHFKNVKKTRH--ORHHRKPKHSRA 102
 DB 273 GGOBCECKDMF-LRAPRRKFTVSGLPKKQCPDHFKNVKKTRH--ORHHRKPKHSRA 102
 OY 103 COQFLKQCOL 112
 DB 332 CEMLGSCQV 341

RESULT 15

O85299 PRELIMINARY; PRT; 221 AA.

ID O85299; 01-NOV-1996 (TREMblrel. 01, Created)
 DT 01-NOV-1996 (TREMblrel. 01, Last sequence update)
 DT 01-NOV-1998 (TREMblrel. 08, Last annotation update)
 DE Homologue of retroviral pseudoprotease.
 OS Orf virus.
 OC Viruses; dsDNA viruses, no RNA stage; Poxviridae; Chordopoxvirinae;
 OC Parapoxvirus.
 OX NCBL_TaxID=10258;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=90266454; PubMed=2129563;
 RA Fraser M., Hill D.F., Mercer A.A., Robinson A.J.;
 RT "Sequence analysis of the inverted terminal repetition in the genome
 of the parapoxvirus, orf virus."
 RL Virology 176:379-389(1990).
 DR EMBL; M30023; AAA46789.1;
 SQ SEQUENCE 221 AA; 25266 MW; 25659ABD386C2317 CRC64;

Query Match 10.8%; Score 69.5; DB 12; Length 221;
 Best Local Similarity 29.2%; Pred. No. 4.7;
 Matches 33; Conservative 8; Mismatches 37; Indels 35; Gaps 6;

OY 26 PGVARGHRDQASRRMLQEGQCECKDWFLLAPRRKFTVSGLPKKQCPD 79
 DB 83 PGVARGHRDQASRRMLQEGQCECKDWFLLAPRRKFTVSGLPKKQCPD 79
 OY 77 CDHFKNVKKTR-----HOR--HHRKPKHSRAQOFLKQCOLS 114
 DB 136 -----RSKYKTRDLAVETLPPQRTPTPTLPPARQHSQACIPPRAGCSARS 184

Search completed: April 16, 2003, 12:16:13
 Job time : 36 secs